Bench Mark: Chiseled " " top of N.E. wingwall S.N. 097-0031, Elev. 385.88 Existing Structure: S.N. 097-0031 built in 1932 as S.B.I. Route 139, Section 101-B, at Section 17+14.21 Super and substructure widened in 1978 as F.A. Route 857, Sec. 101BR-1. Structure consists of 2 spans of PPC deck beams (Spans 1 & 2) & 15 spans of reinf, conc. deck on steel beams (spans 3 thru 17) supported by closed (W) & spill thru pile bent (E) abutments & solid pile (1 & 2) & open conc. pile bent (3 thru 16) piers. 878'-434'' bk.-bk. abuts, 33'-0" 0.-0. deck. The existing structure shall be removed and replaced with the proposed bridge (S.N. 097-007!) and this proposed culvert (S.N. 097-2014). Traffic shall be maintained on a temporary run-around on the north side of the existing bridge during construction. ├── € Roadway No salvage. Cost of removal of the existing structure shall be paid for with the 119'-0" Out to Out of Headwalls proposed work for SN 097-0071 59'-6" elsewhere in this contract. 40'-0" Box Segment 39'-0" 20'-0" 20'-0' Box Segment 16'-0" 16'-0" R.O.W.-13'-0" 13'-0" 316"/ D.S. Invert Elev. 364.00 Elev. 365.00 Gap 2.56% 0.0%

79<u>′-5" Typ.</u>

Slope

Slope

3'-0"

Settlement -

39'-0'' Collar

Box Segment

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

59′-6′′

39'-0"

2.56%

Coarse Aggregate

Slope

Slope

3'-0"

Collar

Settlement

39'-0"

Box Segment

Box Segment

Note: Elevations of the box segments are the elevations at time of construction. Settlement of the box segments is anticipated during and after the placement of the embankment. For boring data, see structure plans for SN 097-0071 elsewhere in this contract.

- R.O.W.

D.S. Invert

Elev. 364.00

D.S. Flowline

Elev. 363.50

Stone Riprap

Class A4

ROUTE NO. TOTAL SHEEY NO. F.A.P. 857 101BR-1 WHITE 47 100 FED. ROAD DIST. NO. 7

SHEET NO.  ${\it 1}$ 

Contract #98960

### GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions

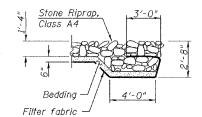
For backfilling and embankment, see Standard Specifications. Layout of slope protection system may be varied in the field to suit ground

conditions as directed by the Engineer.

### INDEX OF SHEETS

- 1 General Plan and Elevation 2-5 Culvert Details
- 6 Settlement Collars

₩ H.W. Elev. 375.70



SECTION A-A

### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	
Concrete Box Culverts	Cu. Yd.	268.7	
Rock Fill	Cu. Yd.	157	
Name Plates	Each	1	
Reinforcement Bars	Pound	61960	
Stone Riprap, Class A4	Sq. Yd.	282	
Filter Fabric	Sq. Yd.	282	

SECTION THRU BARREL

Notes: The Contractor shall remove a minimum depth of

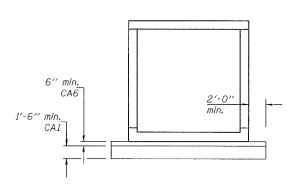
2'-0" of the existing soil within the footprint of

The Contractor shall place the following coarse

the culvert plus an additional 2'-0" on each side of

of the culvert along the CL Rdwy direction. Cost of

removal of soil is included in the cost of Rock Fill.



# LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

# DESIGN SPECIFICATIONS

DESIGN STRESSES FIELD UNITS

= 3.500 psi

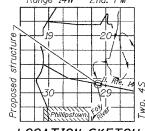
= 60,000 psi (reinforcement)

STATION 175+78.00 BUILT 20\_\_ BY STATE OF ILLINOIS F.A.P. RT. 857 SEC 101BR-6 LOADING HS20 STR. NO. 097-2014

> NAME PLATE See Std. 515001

### Place and compact coarse aggregate CA1 to a minimum depth of 1'-6". On top of the base CA1, place and compact coarse aggregate CA6 to a minimum depth of 6". Cost is included as Rock Fill. See Special Provision. Range 14W - 2nd. PM

aggregate layers:



LOCATION SKETCH

GENERAL PLAN & ELEVATION ILLINOIS ROUTE 14 OVER FOX RIVER F.A.P. ROUTE 857 - SECTION 101BR-6 WHITE COUNTY

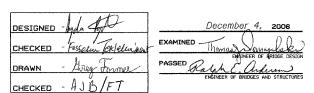
STATION 175+78.00 STRUCTURE NO. 097-2014

## 119'-0" Out to Out of Headwalls PLAN

40'-0"

Box Segment

### \*Note: Soil/riprap to be placed to the barrel at all four corners.



1888 A.

Stone Riprap Class A4

Name Plate-

-0.11%

PROFILE GRADE

U.S. Flowline

Elev. 363.50

081-004625

Settlement Collar

LONGITUDINAL SECTION (Dimensions are @ Rt. L's to @ Roadway)

Station 175+78.00

900

- € Roadway

EXPIRES 11-30-2008

# WATERWAY INFORMATION

Drainage Are	a = 294	00.0 sa	. mi.	P. Low F. Low					
Flood	Freq.			Sq. Ft.		· · · · · · · · · · · · · · · · · · ·			
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design		8284	8765	3789	375.7	0.2	0.3	375.9	376.0
Base	100	9381	9460	4109	376.6	0.3	0.3	376.9	376.9
Overtopping									
Max. Calc.	500	10424	10021	4370	377.3	0.3	0.4	377.6	377.7

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